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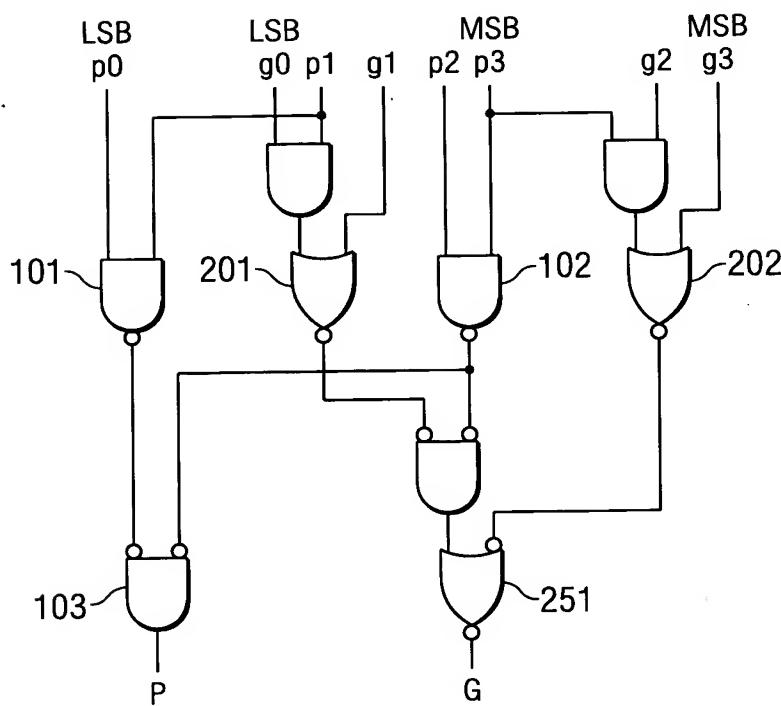


FIG. 1

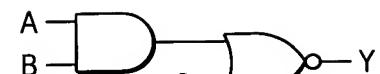


FIG. 2A

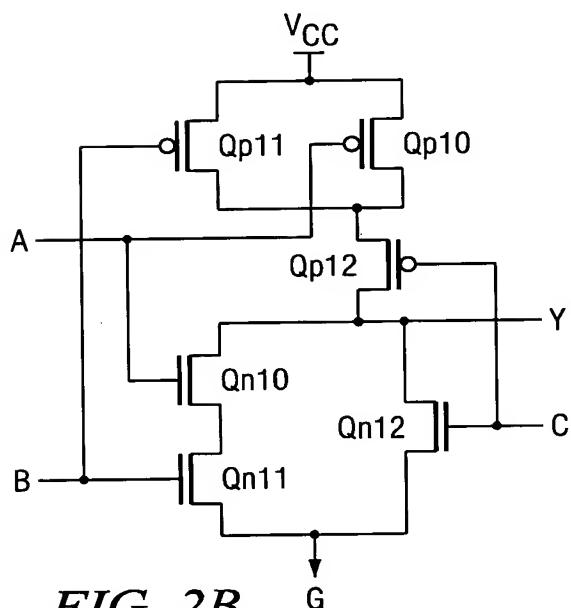


FIG. 2B

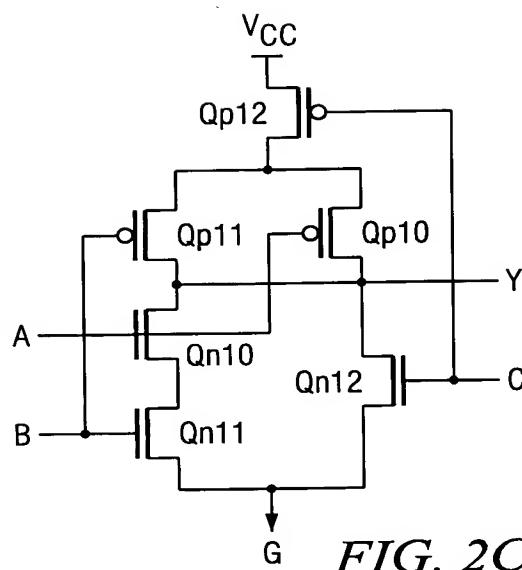
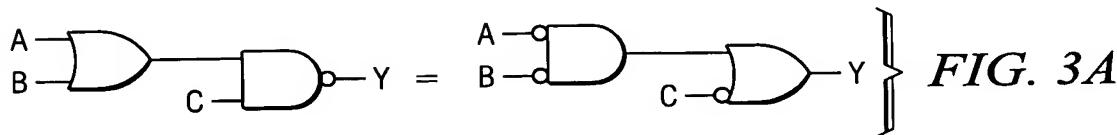


FIG. 2C



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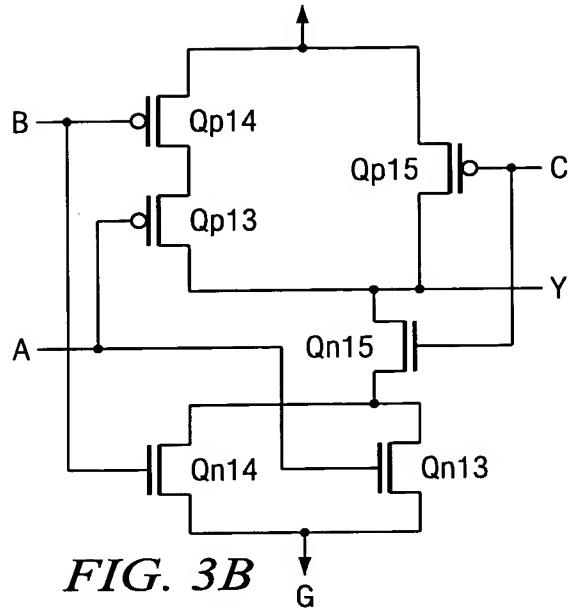


FIG. 3B

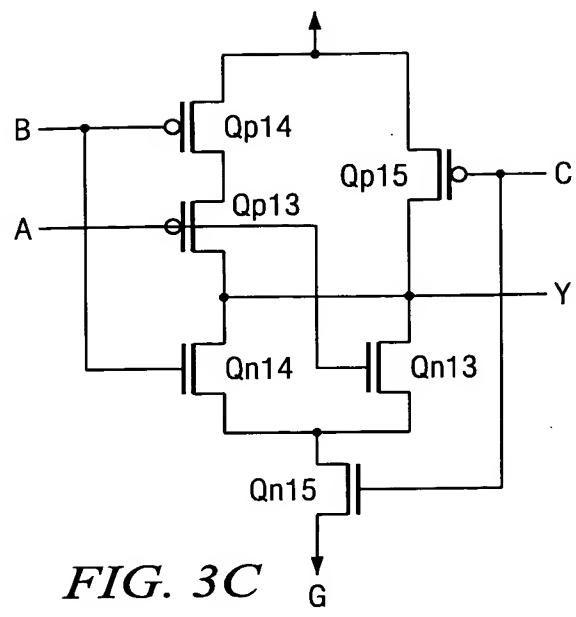


FIG. 3C

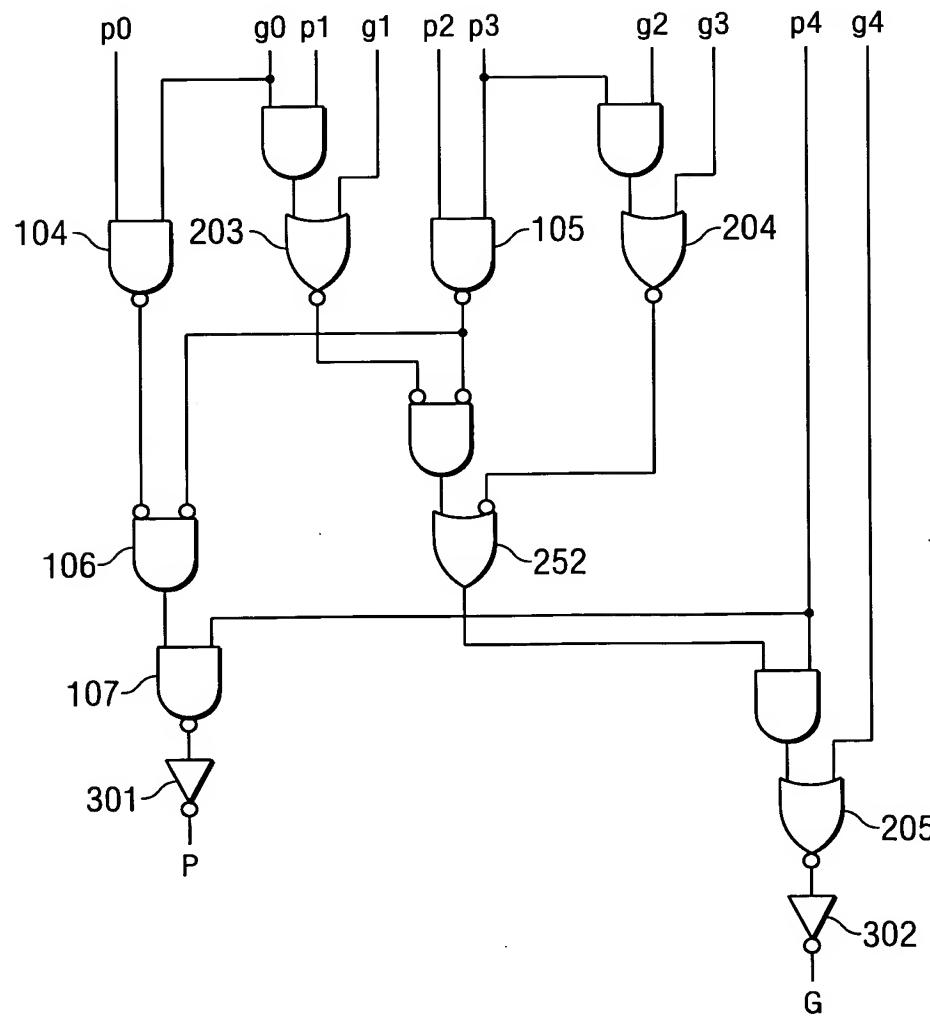


FIG. 4

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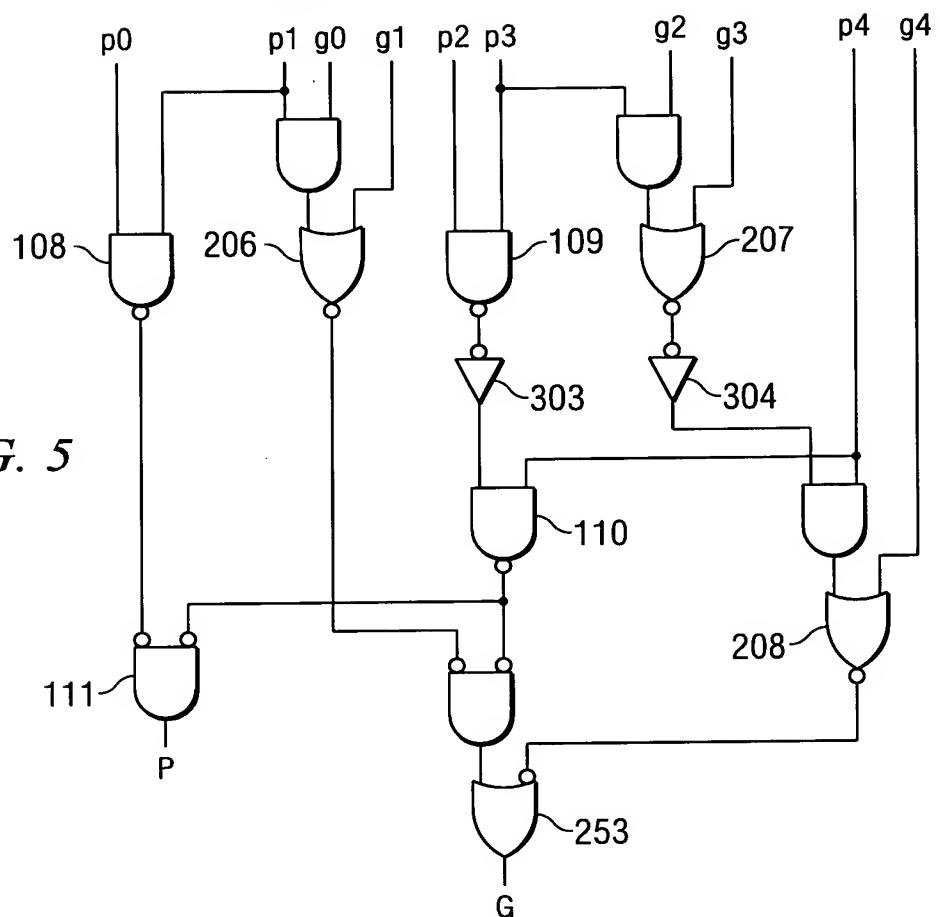


FIG. 5

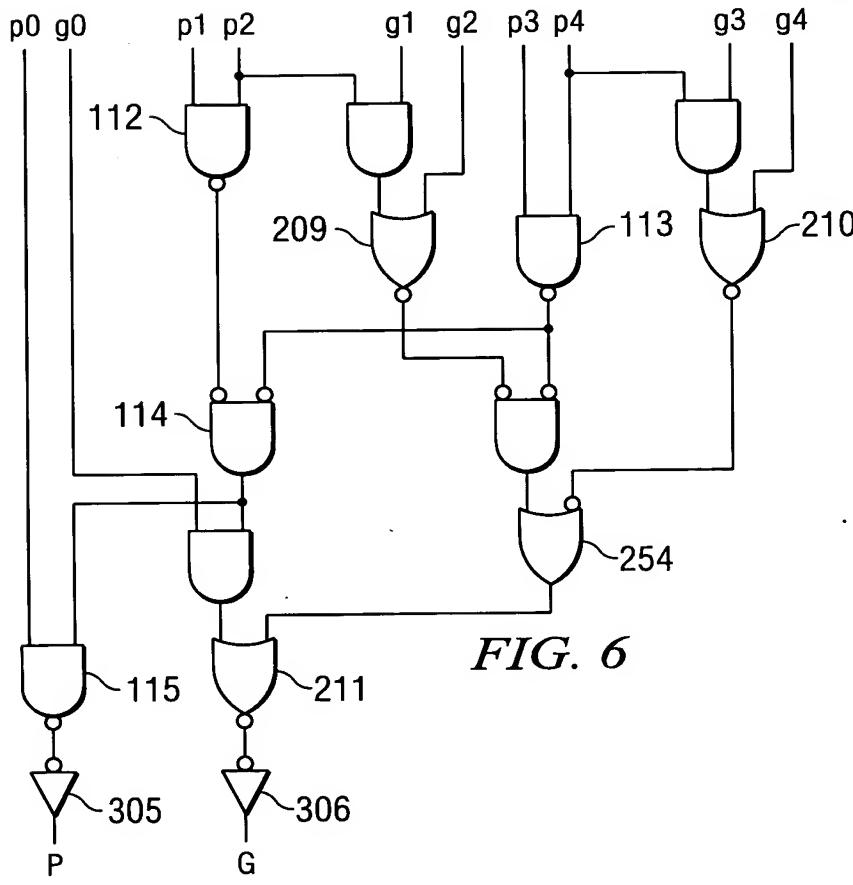


FIG. 6

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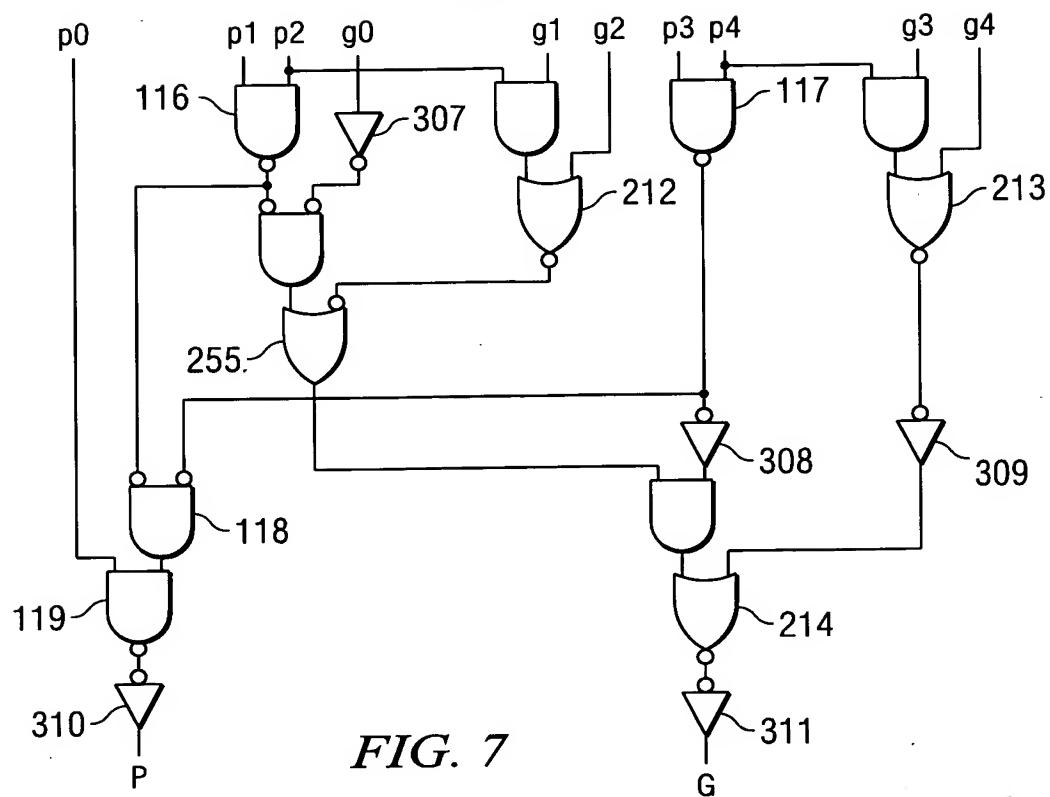


FIG. 7

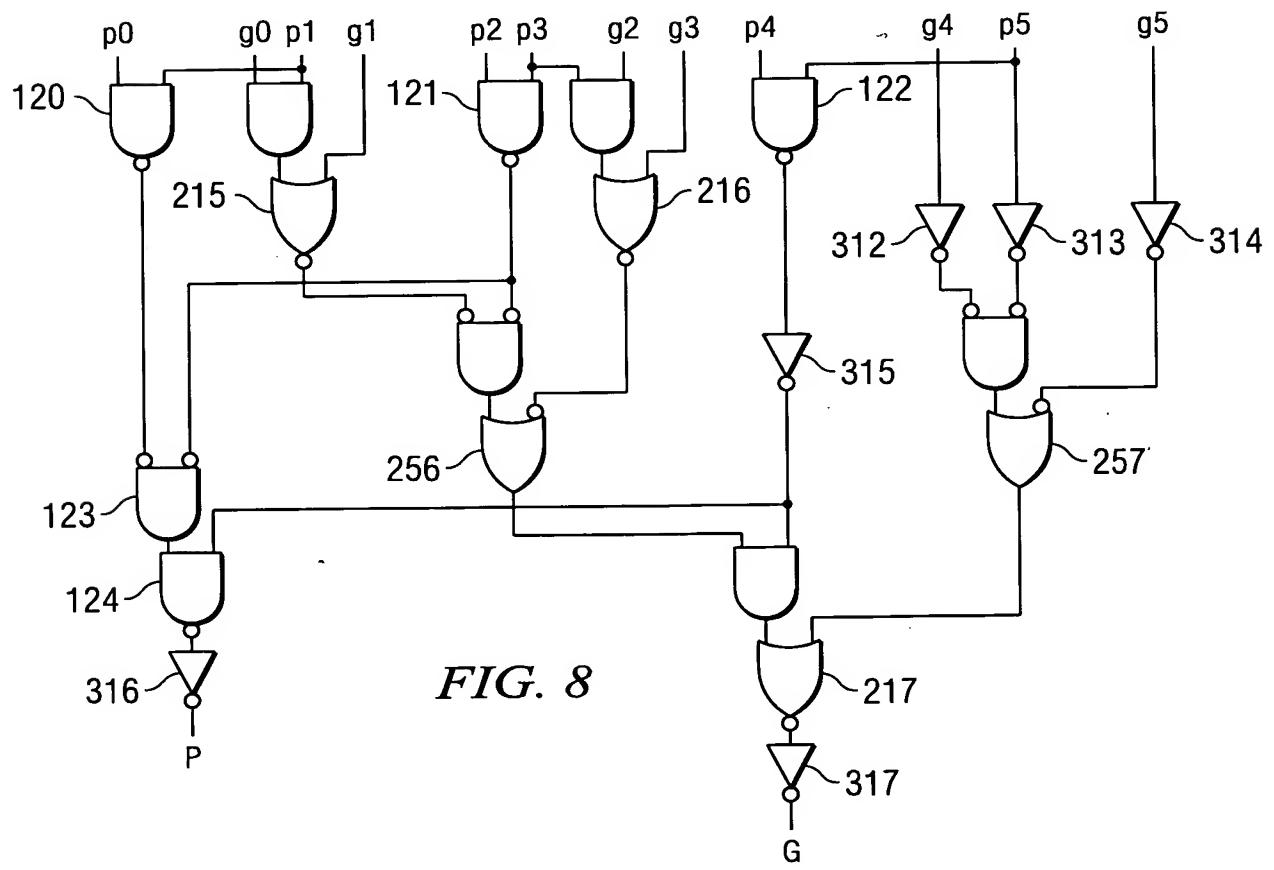


FIG. 8

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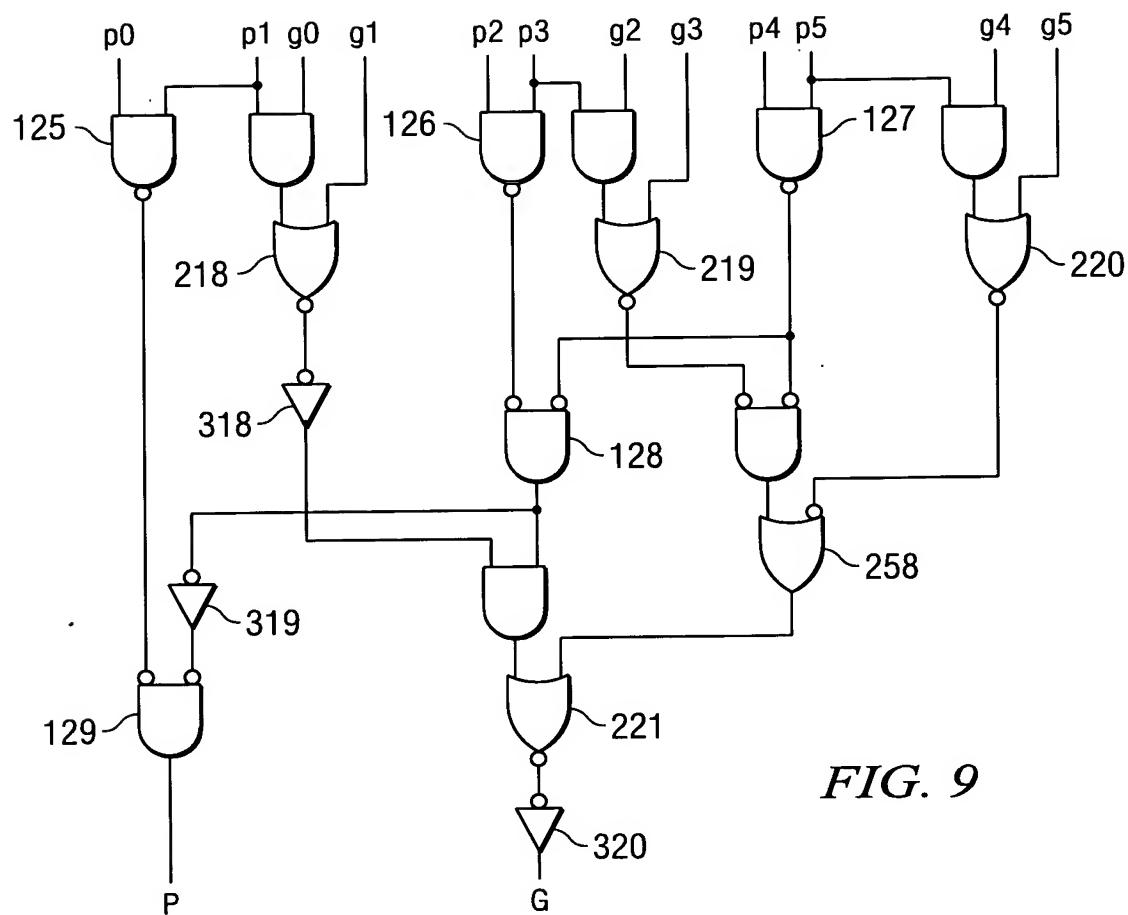


FIG. 9

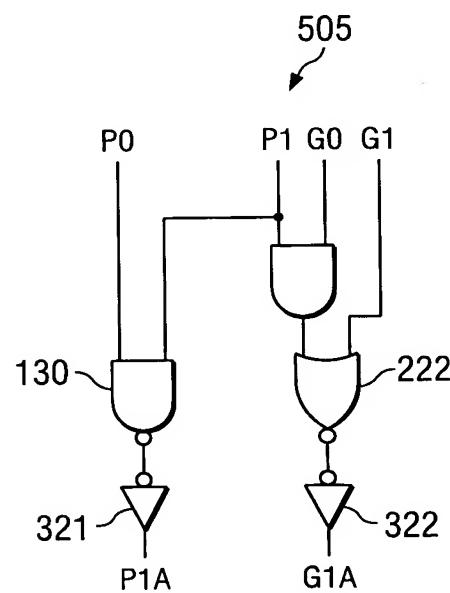


FIG. 11

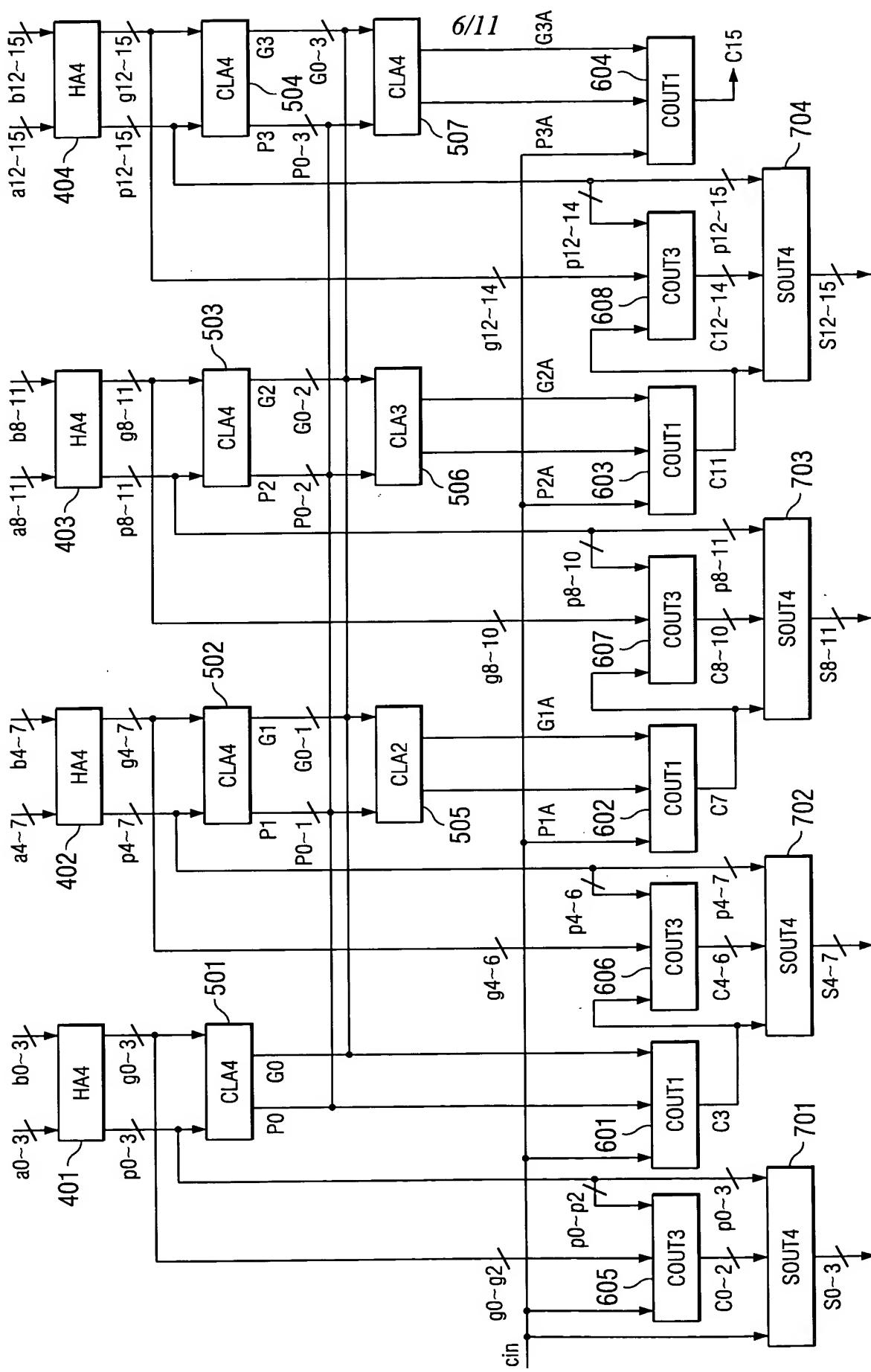


FIG. 10

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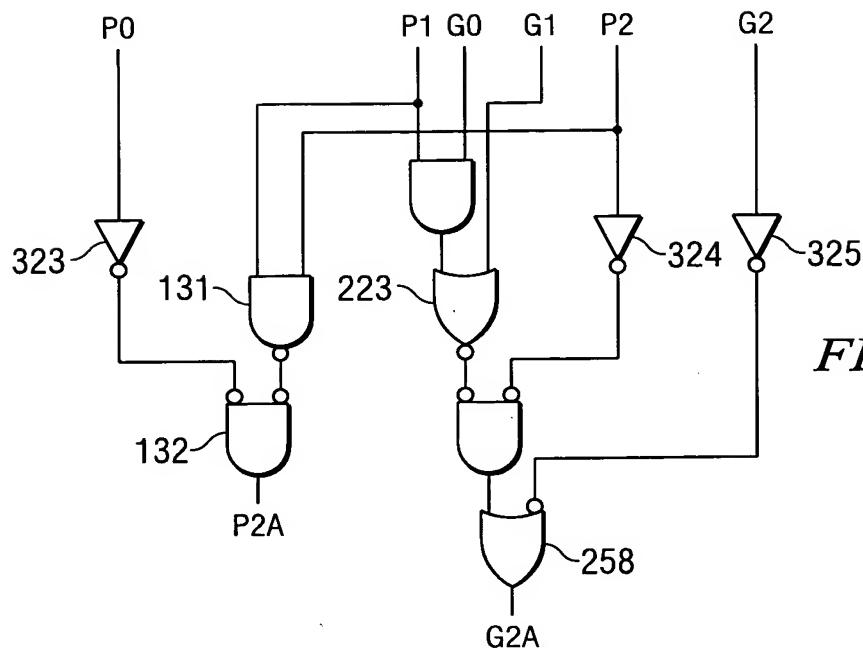


FIG. 12A

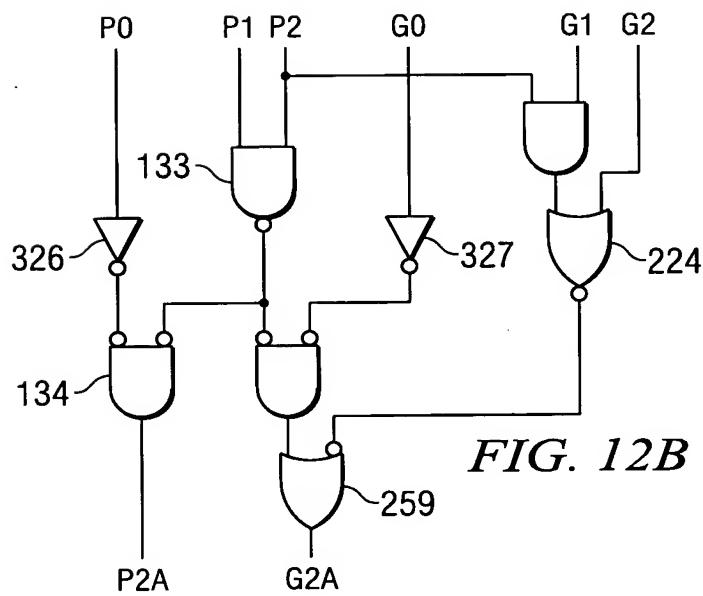


FIG. 12B

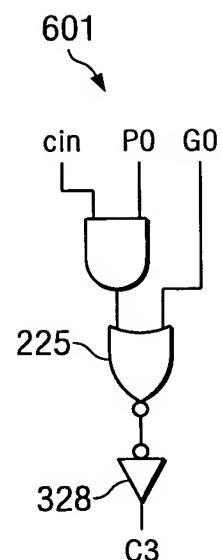


FIG. 13

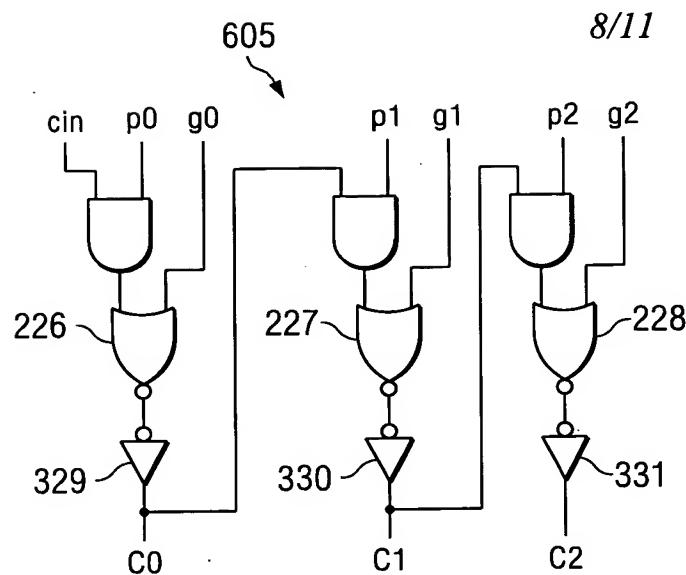


FIG. 14

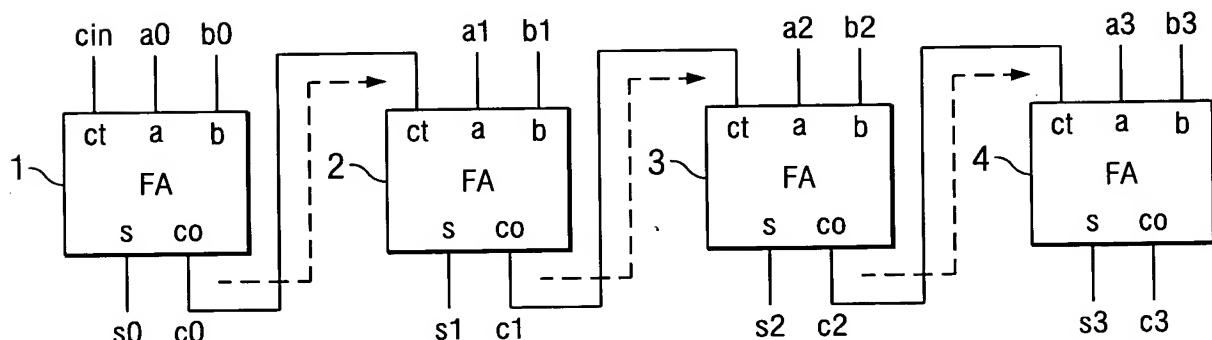
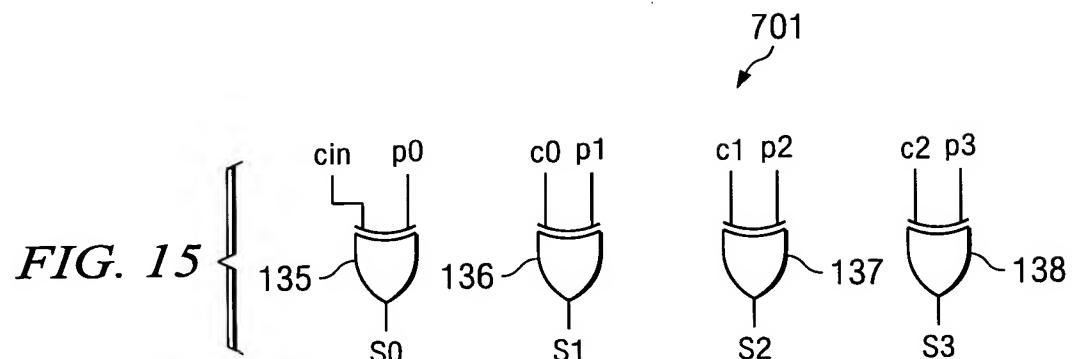
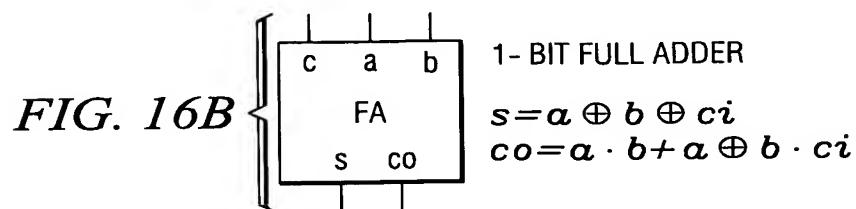


FIG. 16A



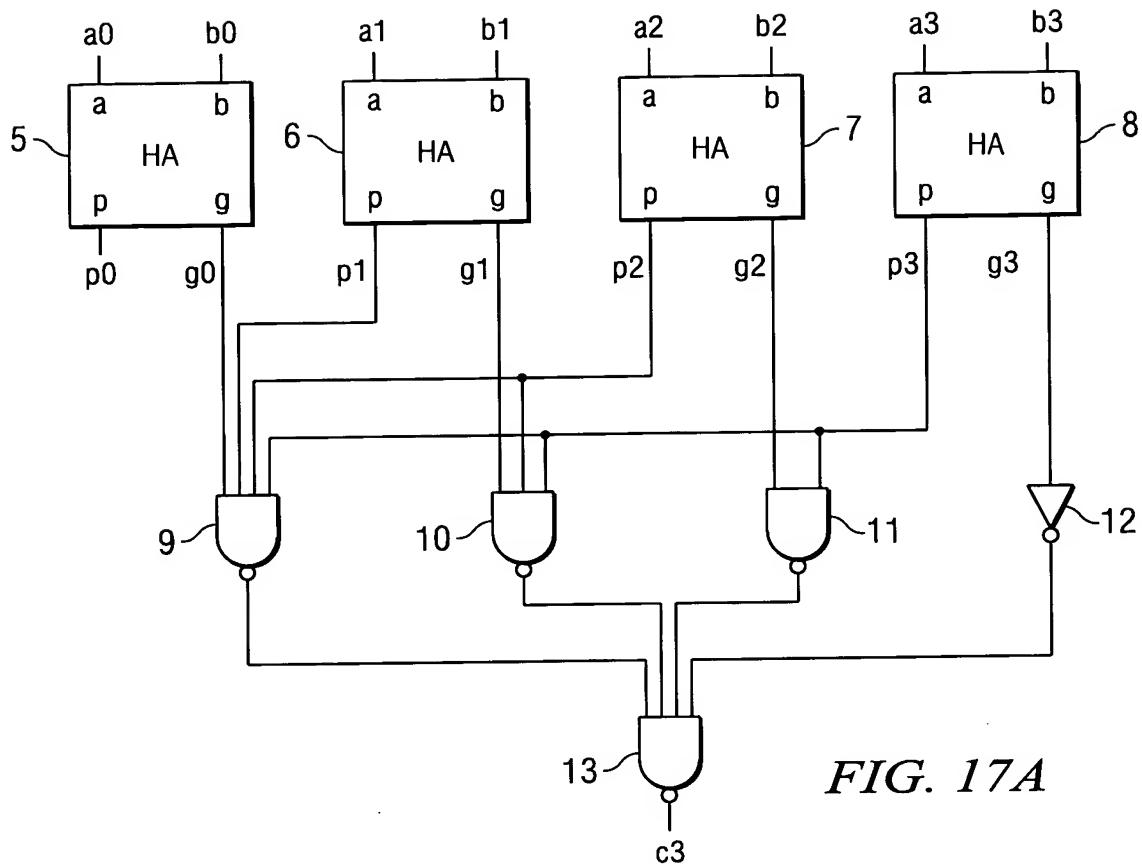


FIG. 17A

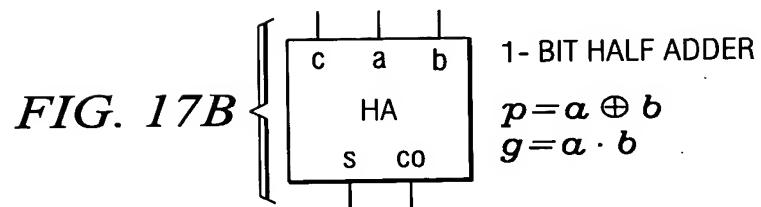


FIG. 17B

1-BIT HALF ADDER

$$p = a \oplus b$$
$$g = a \cdot b$$

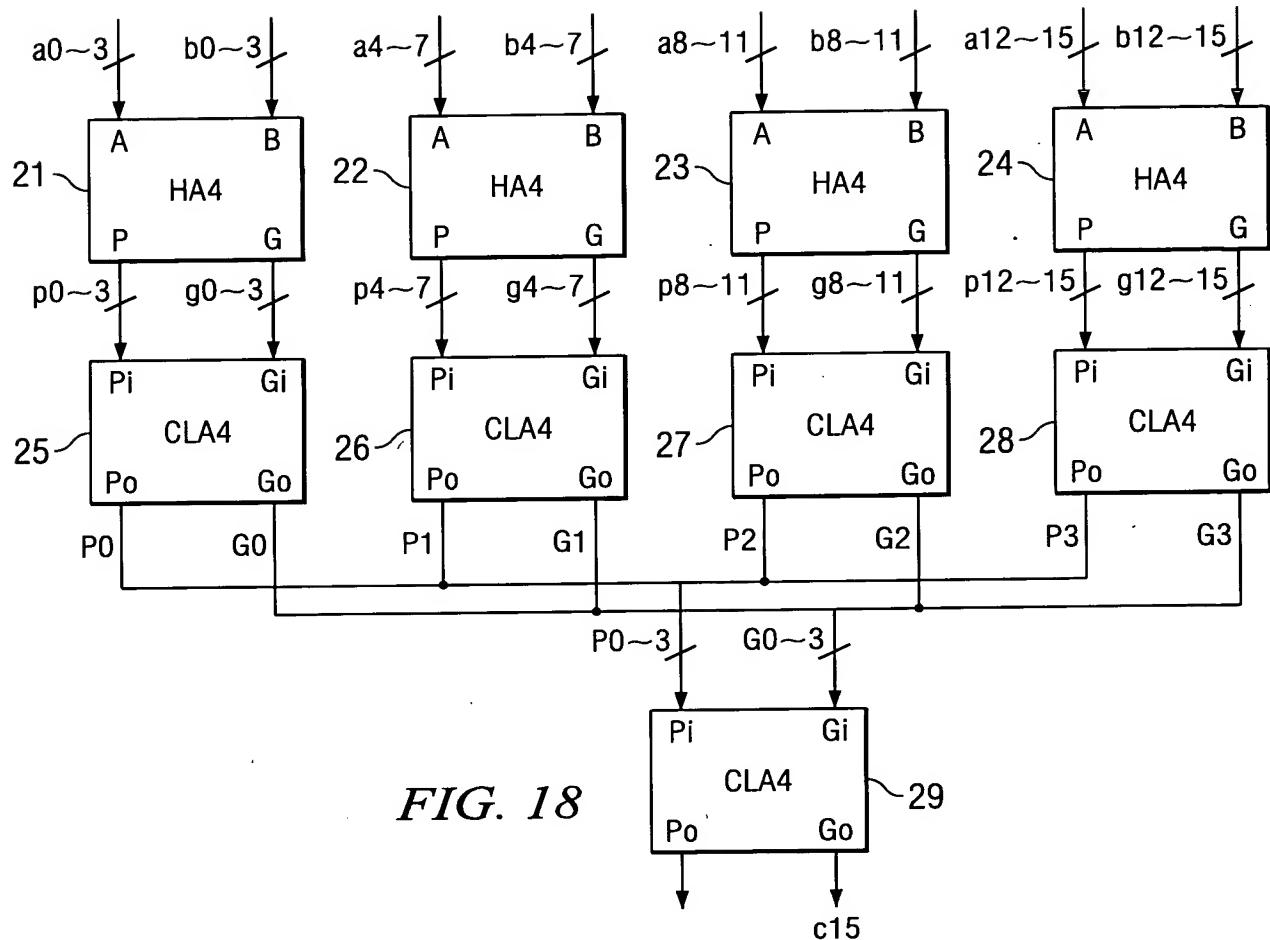


FIG. 18

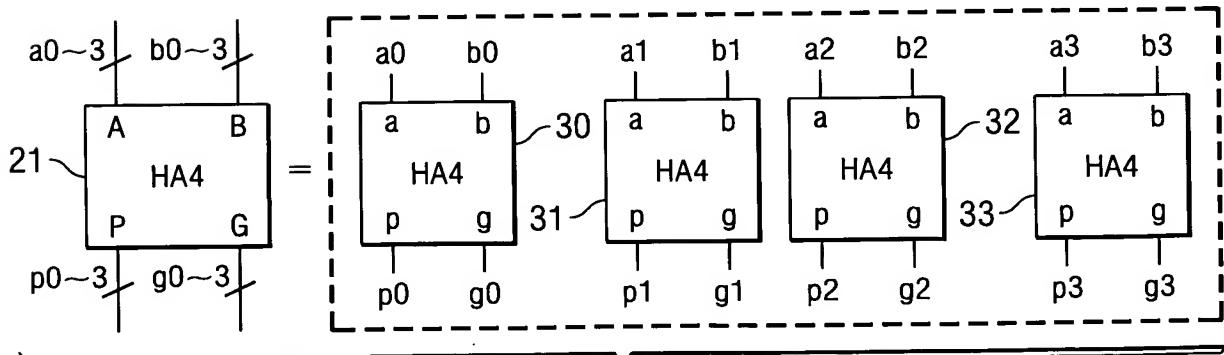


FIG. 19

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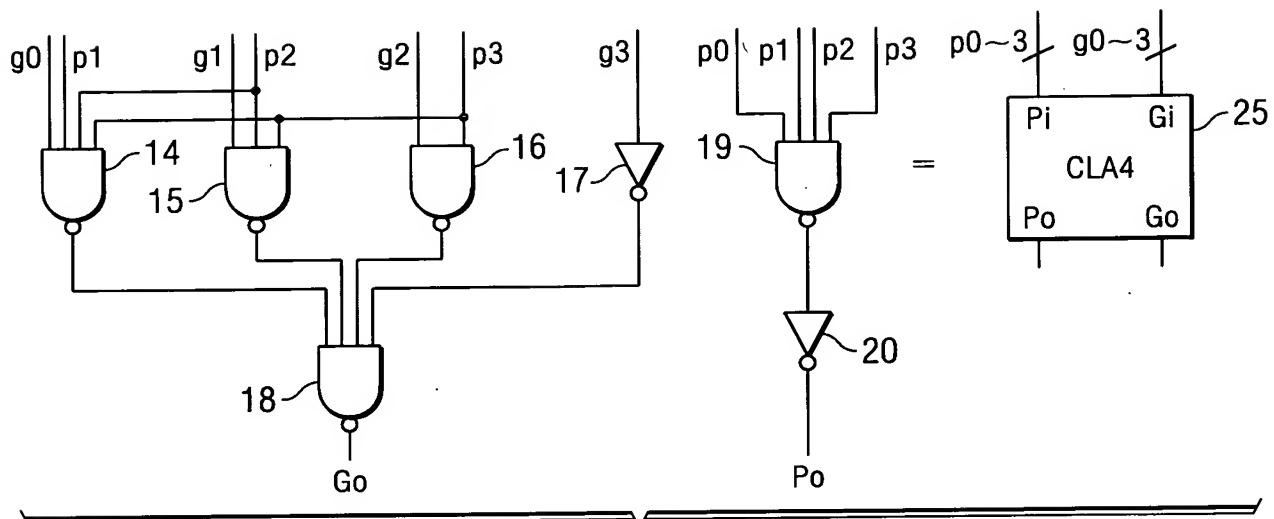


FIG. 20

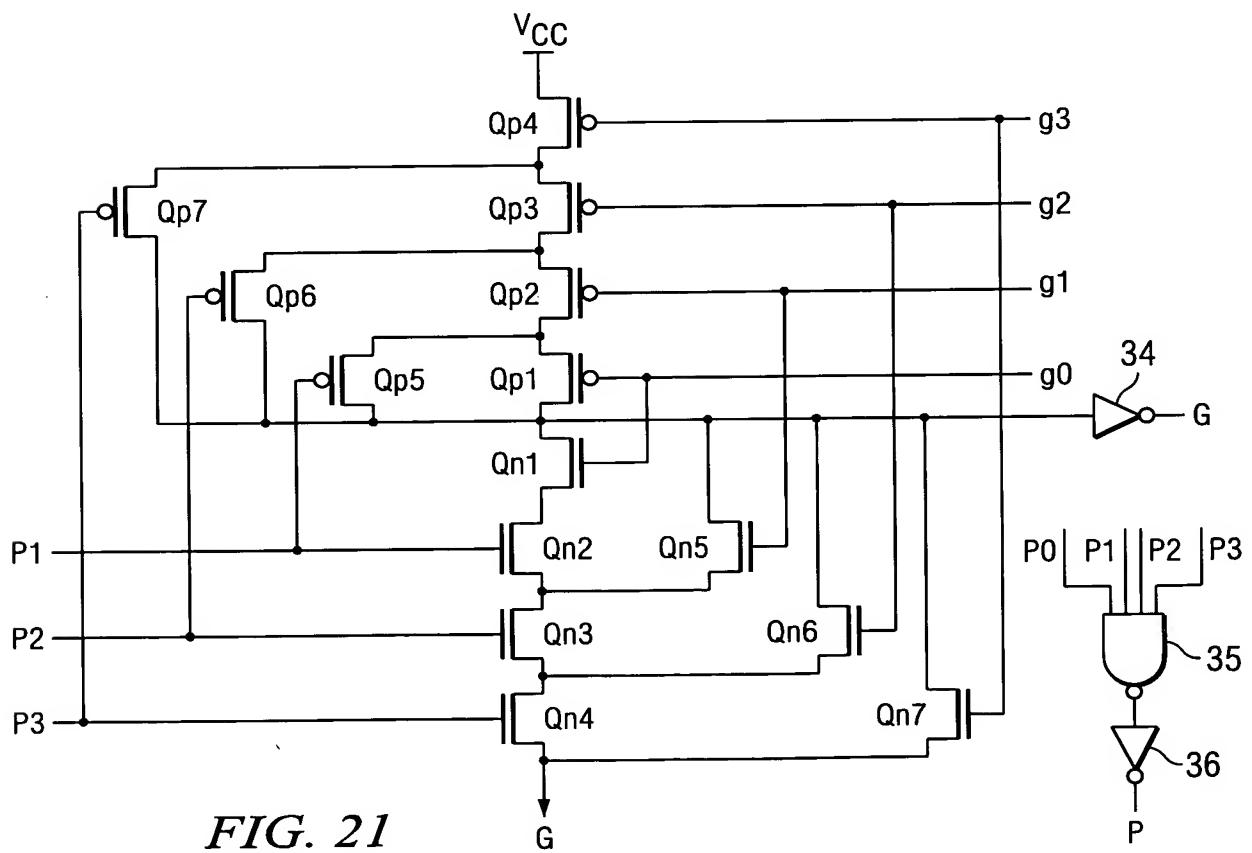


FIG. 21